

## SUBMITTAL DATA: MSZ-HM12NA-(U1)(U2) & MUZ-HM12NAH-U1

### 12,000 BTU/H WALL-MOUNTED HEAT PUMP SYSTEM

|                     |                                                                                                                |       |
|---------------------|----------------------------------------------------------------------------------------------------------------|-------|
| Job Name:           | Location:                                                                                                      | Date: |
| Purchaser:          | Engineer:                                                                                                      |       |
| Submitted to:       | For <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction |       |
| System Designation: | Schedule No.:                                                                                                  |       |



#### ACCESSORIES:

Windscreens (ME-FR-15-17)

#### Controls

Wired Remote Controller (PAR-40MAA)  
Wireless Controller (MHK1)  
Simple MA Remote Controller (PAC-YT53CRAU-J)  
Thermostat Interface (PAC-US444CN-1)  
System Control Interface (MAC-334IF-E)

| #3                | Test condition                                         | Mode                                                   | Indoor air condition (°F) |          | Outdoor air condition (°F) |          |
|-------------------|--------------------------------------------------------|--------------------------------------------------------|---------------------------|----------|----------------------------|----------|
|                   |                                                        |                                                        | Dry bulb                  | Wet bulb | Dry bulb                   | Wet bulb |
| SEER<br>(Cooling) | A-2" Cooling steady state at rated compressor speed    | B-2" Cooling steady state at rated compressor speed    | 80                        | 67       | 95                         | (75)     |
|                   |                                                        |                                                        | 80                        | 67       | 82                         | (65)     |
|                   |                                                        |                                                        | 80                        | 67       | 82                         | (65)     |
|                   |                                                        |                                                        | 80                        | 67       | 67                         | (53.5)   |
|                   |                                                        |                                                        | 80                        | 67       | 87                         | (69)     |
| HSPF<br>(Heating) | H0-1" Heating steady state at minimum compressor speed | H1-1" Heating steady state at minimum compressor speed | 70                        | 60       | 47                         | 43       |
|                   |                                                        |                                                        | 70                        | 60       | 17                         | 15       |
|                   |                                                        |                                                        | 70                        | 60       | 62                         | 56.5     |
|                   |                                                        |                                                        | 70                        | 60       | 47                         | 43       |
|                   |                                                        |                                                        | 70                        | 60       | 35                         | 33       |

#4: at intermediate compressor speed  
#5: ("Rated compressor speed" - "minimum compressor speed") / 3 + "minimum compressor speed"

|                 |                                         |                         |                 |
|-----------------|-----------------------------------------|-------------------------|-----------------|
| Cooling         | Rated Capacity (*1)                     | Btu/h                   | 12,000          |
|                 | Capacity Range                          | Btu/h                   | 3,800 - 12,200  |
|                 | Total input (*1)                        | W                       | 1,210           |
|                 | Energy Efficiency                       | EER (*1)                | 9.9             |
|                 |                                         | SEER (*3)               | 18.0            |
| Heating at 47°F | Moisture Removal                        | Pints/h                 | 2.5             |
|                 | Rated Capacity (*1)                     | Btu/h                   | 12,200          |
|                 | Capacity Range                          | Btu/h                   | 4,500 - 14,500  |
|                 | Total input (*1)                        | W                       | 990             |
|                 | HSPF (Region IV) (*3)                   | Btu/h/W                 | 9.0             |
| Heating at 17°F | Rated Capacity (*2)                     | Btu/h                   | 7,600           |
|                 | Rated Total input (*2)                  | W                       | 800             |
|                 | Maximum Capacity (*2)                   | Btu/h                   | 9,000           |
|                 | Maximum Total Input (*2)                | W                       | 990             |
|                 |                                         |                         |                 |
| Power supply    | Voltage, Phase, Cycle                   | 208/230V, 1-phase, 60Hz |                 |
| Voltage         | Indoor - Outdoor S1-S2                  | AC 208/230V             |                 |
|                 | Indoor - Outdoor S2-S3                  | DC12-24V                |                 |
|                 | Indoor - Remote controller              | DC12V                   |                 |
| Indoor unit     | MCA (*)                                 | A                       | 1.0             |
|                 | Fan Motor                               | F.L.A.                  | 0.76            |
|                 | Air flow (Lo-Mid-High-Super High)       | DRY(CMM)                | 170-237-321-399 |
|                 |                                         | WET(CMM)                | 134-201-286-364 |
|                 | Sound Level CLG (Low-Med-Hi-Super High) | dB (A)                  | 22-30-37-45     |
|                 | Sound Level HTG (Low-Med-Hi-Super High) | dB (A)                  | 22-30-37-43     |
|                 | External Finish Color                   | Munsell 1.0Y 9.2/0.2    |                 |
|                 | Dimensions                              | W: in                   | 31-7/16         |
|                 |                                         | D: in                   | 9-1/8           |
|                 |                                         | H: in                   | 11-5/8          |
|                 | Weight Unit                             | lbs                     | 22              |
|                 | Field Drainpipe O.D.                    | in                      | O.D. 5/8        |
|                 |                                         |                         |                 |
|                 |                                         |                         |                 |
|                 |                                         |                         |                 |

|                     |                                 |                        |                                 |
|---------------------|---------------------------------|------------------------|---------------------------------|
| Outdoor unit        | MCA (*)                         | A                      | 9                               |
|                     | MOCP (*)                        | A                      | 15                              |
|                     | Fan Motor                       | F.L.A.                 | 0.5                             |
|                     |                                 | R.L.A.                 | 6.2                             |
|                     |                                 | L.R.A.                 | 7.7                             |
|                     | Air Flow Cooling (Low-Med-High) | CFM                    | 1,063                           |
|                     | Air Flow Heating (Low-Med-High) | CFM                    | 1,105 - 1,282                   |
|                     | Refrigerant Control             | Linear Expansion Valve |                                 |
|                     | Defrost Method                  | Reverse Cycle          |                                 |
|                     | Sound Level (Cooling) (*1)      | dB (A)                 | 49                              |
|                     | Sound Level (Heating) (*1)      | dB (A)                 | 51                              |
|                     | External Finish Color           | Munsell No.3Y 7.8/1.1  |                                 |
|                     | Dimension                       | W: in                  | 31-1/2                          |
|                     |                                 | D: in                  | 11-1/4                          |
|                     |                                 | H: in                  | 21-5/8                          |
|                     | Weight                          | lbs                    | 73                              |
| Remote Controller   | Type                            | Simple Wireless Remote |                                 |
|                     |                                 | R410A                  |                                 |
| Refrigerant         | Charge                          | lbs, oz                | 1.12                            |
|                     | Oil                             | Type(FL.oz.)           | FV50S(9.1)                      |
| Refrigerant Pipe    | Liquid side O.D.                | in                     | 1/4                             |
|                     | Gas side O.D.                   | in                     | 3/8                             |
|                     | Height Difference (Max)         | ft                     | 40                              |
|                     | Length (Max.)                   | ft                     | 65                              |
| Connection Method   | Indoor/Outdoor                  | Flared/Flared          |                                 |
| Operation Guarantee | Cooling                         | °F (°C)                | 90°F --> 140°F (32°C --> -10°C) |
|                     | Heating                         | °F (°C)                | 80°F --> -15°F (26°C --> -20°C) |
| Efficiency          | COP at 47°F <sup>1</sup>        | Rated Capacity         | 3.65                            |
|                     | COP at 17°F <sup>2</sup>        | Maximum Capacity       | 2.65                            |
|                     | COP at 5°F                      | Maximum Capacity       | 2.31                            |

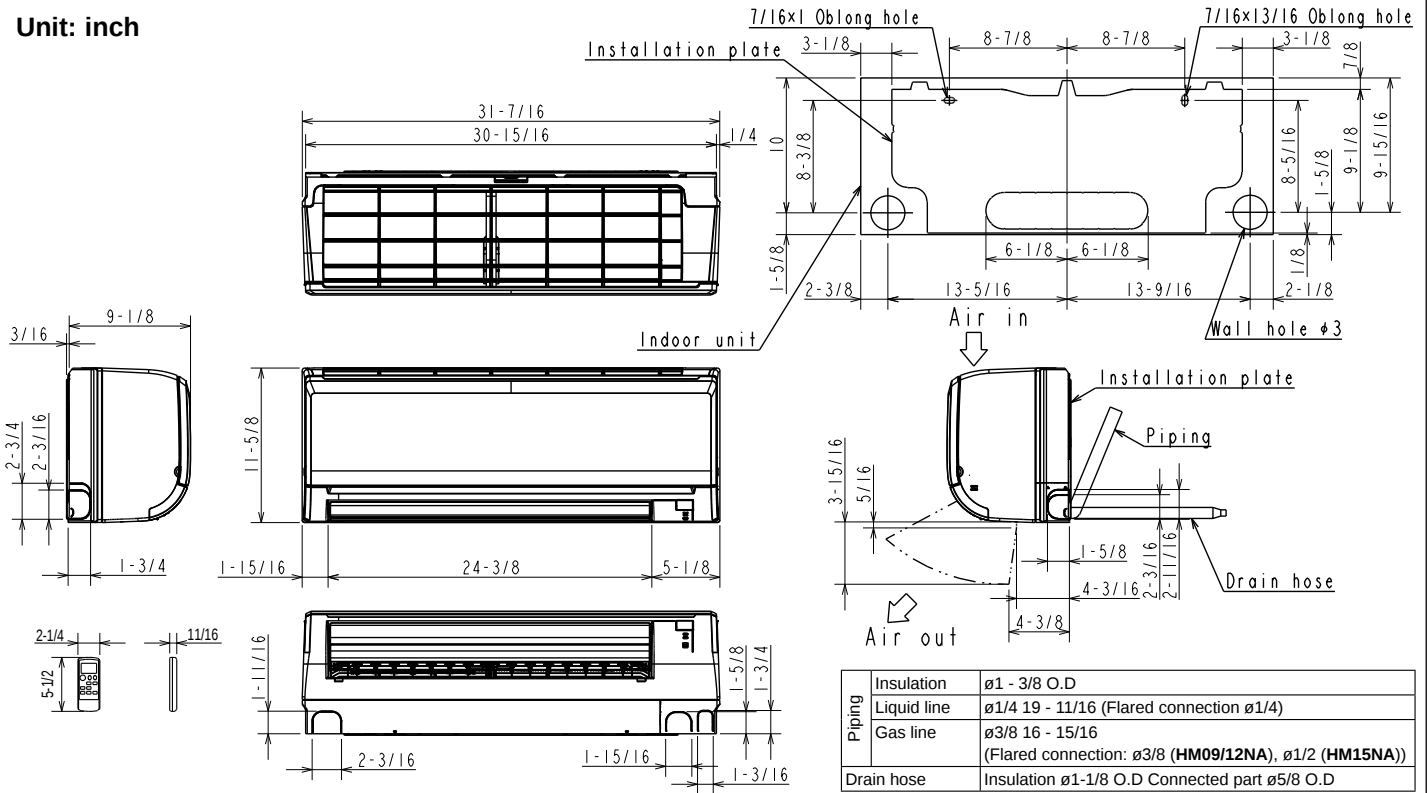
**NOTE:** Test conditions are based on AHRI 210/240.

- \* 1: Rating conditions (Cooling) — Indoor: 80°FDB, 67°FWB, Outdoor: 95°FDB, (75°FWB)  
(Heating) — Indoor: 70°FDB, 60°FWB, Outdoor: 47°FDB, 43°FWB  
\* 2: (Heating) — Indoor: 70°FDB, 60°FWB, Outdoor: 17°FDB, 15°FWB  
\* 3: Test condition

Specifications are subject to change without notice

# DIMENSIONS: MSZ-HM12NA-(U1)(U2) & MUZ-HM12NAH-U1

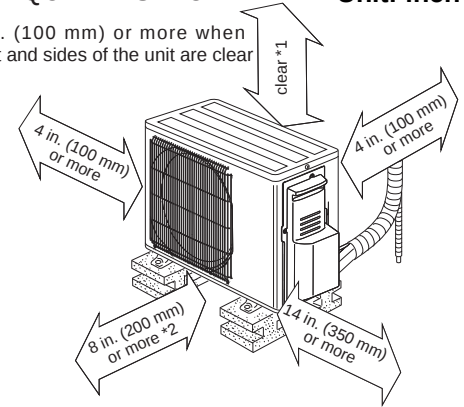
Unit: inch



## REQUIRED SPACE

Unit: inch

\*1 4 in. (100 mm) or more when front and sides of the unit are clear



\*2 When any 2 sides of left, right and rear of the unit are clear

